## What is claimed is:

1. An irrigation sprinkler for uniformly watering a target area comprising:

a sprinkler body;

a nozzle disposed on said sprinkler body;

said nozzle comprising a substantially hollow, cylindrically shaped body having a first end, a second end and a flow passageway extending therebetween surrounded by an internal wall; and

a plurality of stepped, radial offsets formed along said internal wall such that an internal diameter of said nozzle decreases from said first end to said second end of said nozzle.

- 2. The irrigation sprinkler of claim 1 wherein said nozzle is removable from said sprinkler body.
- 3. The irrigation sprinkler of claim 1 further including at least one fin formed along said internal wall to reduce fluid turbulence.
- 4. The irrigation sprinkler of claim 3 wherein said fin is aligned parallel to fluid flow.
- 5. The irrigation sprinkler of claim 1 wherein said first end is attached to a fluid source.
- 6. The irrigation sprinkler of claim 1 wherein said second end is attached to a fluid source.
- 7. The irrigation sprinkler of claim 1 wherein said stepped radial offsets are arranged at various angles to decrease a boundary layer of fluid within said nozzle.

8. An irrigation sprinkler for uniformly watering a target area comprising: a sprinkler body;

a nozzle disposed on said sprinkler body;

said nozzle comprising a substantially hollow, cylindrically shaped body having a first end, a second end and a flow passageway extending therebetween surrounded by an internal wall;

a plurality of stepped, radial offsets formed along said internal wall such that an internal diameter of said nozzle decreases from said first end to said second end of said nozzle; and

at least one fin formed along said internal wall to reduce fluid turbulence.

- 9. The irrigation sprinkler of claim 8 wherein said nozzle is removable from said sprinkler body.
- 10. The irrigation sprinkler of claim 8 wherein said fin is aligned parallel to fluid flow.
- 11. The irrigation sprinkler of claim 8 wherein said first end is attached to a fluid source.
- 12. The irrigation sprinkler of claim 8 wherein said second end is attached to a fluid source.
- 13. The irrigation sprinkler of claim 8 wherein said stepped radial offsets are arranged at various angles to increase a boundary layer of fluid within said nozzle.
- 14. The irrigation sprinkler of claim 8 wherein said stepped radial offsets are arranged at various angles to decrease a boundary layer of fluid within said nozzle.

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- 15. The irrigation sprinkler of claim wherein said boundary layer flows at a rate less than a centerline fluid velocity.
- 16. A method of uniformly watering a target area comprising:

  providing a sprinkler attached to a fluid source;

  introducing fluid from said fluid source to said sprinkler;

  urging said fluid to an exit of said sprinkler; and

  increasing a boundary layer thickness of said fluid as it exits said sprinkler by

  urging said fluid through a stepped internal surface along said exit.
- 17. The method of claim 16 further comprising maximizing a throw radius of said sprinkler by maintaining boundary layer fluid flow at a rate less than centerline velocity.
- 18. The method of claim 17 further comprising producing even water distribution over said throw radius.
- 19. The method of claim 16 further comprising providing at least one fin formed along said stepped internal surface to reduce fluid turbulence.
- 20. The method of claim 19 further comprising providing a nozzle within said exit of said sprinkler to form a water stream projecting from one said of said sprinkler.